

**WHAT IS CLAIMED IS:**

1. An information-recording apparatus for recording digital information in an information-recording medium in accordance with a recording format in which two types of information-recording lengths exist, said digital information including first digital information having a first information-recording length and second digital information having a second information-recording length, said second information-recording length being shorter than said first information recording length, the information-recording apparatus comprising:

a recorder for recording the first digital information and the second digital information in said information-recording medium,

wherein the recorder records a servo control signal between a recording portion of the first digital information having the first information-recording length and a recording portion of the second digital information having the second information-recording length, said servo control signal serving as a reference during reproduction of said first digital information and said second digital information.

2. An information-recording method for recording digital information in an information-recording medium in accordance with a recording format in which two types of information-recording lengths exist, said digital information including first digital information having a first information-recording length and second digital information having a second information-recording length, said second information-recording length being shorter than said first information recording length, said method comprises the steps of:

recording said first digital information and said second digital information in said information-recording medium; and

recording a servo control signal between a recording portion of the first digital information having the first information-recording length and a recording portion of the second digital information having the second information-recording length, said servo control signal serving as a reference during reproduction of said first digital information and said second digital information.

3. An information-reproducing apparatus for reproducing digital information from an information-recording medium having a recording format in which two types of information recording lengths exist, said digital information including first digital information having a first information-recording length and second digital information having a second information-recording length, said second information-recording length being shorter than said first information recording length, said information-reproducing apparatus comprising:

a reproducer for reproducing said first digital information and said second digital information from said information-recording medium,

wherein said reproducer reproduces a servo control signal between a recording portion of the first digital information having said first information-recording length and a recording portion of the second digital information having said second information-recording length, said servo control signal serving as a reference during reproduction of said first digital information and said second digital information.

4. The information-reproducing apparatus as claimed in claim 3, further comprising correction processor for sequentially correcting said first digital information having the first information-recording length and said second digital information having the second information-recording length, said first and second digital information being reproduced by said reproducer.

5. An information-reproducing method for reproducing digital information from an information-recording medium having a recording format in which two types of information recording lengths exist, said digital information including first digital information having a first information-recording length and second digital information having a second information-recording length, said second information-recording length being shorter than said first information recording length, said method comprising the steps of:

reproducing said first digital information and said second digital information from said information-recording medium; and

reproducing a servo control signal between a recording portion of the first digital information having said first information-recording length and a recording portion of the second digital information having the second information-recording length, said servo control signal serving as a reference during reproduction of said first digital information and said second digital information.

6. The information-reproducing method as claimed in claim 5, further comprising the step of correcting the reproduced first digital information having said first information-recording length

and the reproduced second digital information having said second information-recording length sequentially.

7. An information-recording medium for allowing digital information to be recorded therein in accordance with a recording format in which two types of information recording lengths exist, said digital information including first digital information having a first information-recording length and second digital information having a second information-recording length, said second information-recording length being shorter than said first information-recording length, wherein a servo control signal is recorded between said first digital information and said second digital information, said servo control signal serving as a reference during reproduction of said first digital information and said second digital signal.